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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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| CERTIFICATE OF MAILING | |
| I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Assistant Commissioner for Patents, P.O. Box 2327, Arlington, Virginia 22202 | |
| on <u>05/02/02</u> | <u>Mary Quan</u> |
| Date | Signature |
| <u>Mary Quan</u> | |
| Typed or printed name of person signing certificate | |

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TC 2800 MAIL ROOMREVOCATION OF POWERS OF ATTORNEY
AND APPOINTMENT OF NEW ATTORNEYS AND/OR AGENTS
AND CHANGE OF CORRESPONDENCE ADDRESS

Assistant Commissioner for Patents
P.O. Box 2327
Arlington, Virginia 22202

Sir:

Astral Point Communications, Inc., a Corporation duly organized under the laws of the State of Delaware, is the assignee of the entire right, title and interest in the patent applications identified in Attachment A. Astral Point Communications, Inc. hereby appoints the attorneys and/or agents associated with:

Customer No. 024587
Alcatel USA, Inc.
Intellectual Property Department
1000 Coit Road, MS LEG2
Plano, Texas 75075

to prosecute the identified applications and any divisions or continuations thereof and to conduct all business in the United States Patent and Trademark Office. All previously granted Powers of Attorney are hereby revoked.

Certification under 37 C.F.R. §3.73(b) with Attachment A is submitted herewith.

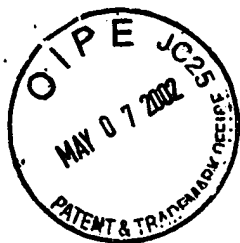
All correspondence should be sent to Jessica Smith, Esq., Alcatel USA, Inc., 1000 Coit Road, MS LEG2, Plano, Texas 75075. Please direct all telephone calls to Jessica Smith, Esq., at (972) 519-5103, and all facsimile communications to (972) 477-9328.

Respectfully submitted,
Astral Point Communications, Inc.

By Bruce Miller
Bruce Miller
Title: Executive Vice President

Date 4/26/02

:ODMAIMHODMAIMANAGE:007724:



CERTIFICATE UNDER 37 C.F.R. § 3.73(b)

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Astral Point Communications, Inc.

a Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

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certifies that it is

- A. ☒ the assignee of the entire right, title and interest in the patent applications identified in Attachment A.
- B. ☐ an assignee together with ☐ of the entire right, title and interest in the patent application identified above. A separate Certificate under 37 CFR § 3.73(b) is attached.

The right, title and interest of the above-named assignee in the patent application identified above is established by virtue of:

- A. ☒ An assignment from the inventor(s) of the patent applications identified in attachment A. The assignments were recorded in the Patent and Trademark Office at Reel and Frame indicated in attachment A.

OR

- B. ☐ A chain of title from the inventor(s) of the patent application identified above, to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.
2. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.
3. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are attached.

☐ Copies of assignments or other documents in the chain of title are attached.

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: 4/26/02

Name: Bruce Miller

Title: Executive Vice President

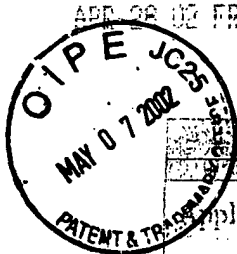
Signature: Bruce Miller

ATTACHMENT A

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TC 2800 MAIL ROOM

| | | | |
|-------------------|---|-----------|-------------------------------|
| Applicants: | Pierre A. Humblet <i>et al.</i> | | |
| Docket No.: | 2675.1001-000 | | |
| Application No.: | 09/290,051 | Group: | 2664 |
| Filed: | April 12, 1999 | Examiner: | Ngo, Ricky Quoc |
| Title: | Method and Apparatus For Point-to-Point and Point-to-Multipoint Connections In An ATM Network | | |
| Assignee: | Astral Point Communications, Inc. | | |
| Recordation Date: | May 24, 1999 | Reel: | 009981 Frames: 0281-0285 |
| Applicants: | Pierre A. Humblet <i>et al.</i> | | |
| Docket No.: | 2675.1003-000 | | |
| Application No.: | 09/324,454 | Group: | 2731 |
| Filed: | June 2, 1999 | Examiner: | Not Assigned |
| Title: | Method and System For Path Protection In A Communications Network | | |
| Assignee: | Astral Point Communications, Inc. | | |
| Recordation Date: | August 23, 1999 | Reel: | 010184 Frames: 0767-0773 |
| Applicants: | Pierre A. Humblet <i>et al.</i> | | |
| Docket No.: | 2675.1003-001 | | |
| Application No.: | 09/524,479 | Group: | 2739 |
| Filed: | March 13, 2000 | Examiner: | Not Assigned |
| Title: | Method and System For Path Protection In A Communications Network | | |
| Assignee: | Astral Point Communications, Inc. | | |
| Recordation Date: | July 17, 2000 | Reel: | 010979 Frames: 0565-0571 |
| Applicants: | Jerry D. Hutchison <i>et al.</i> | | |
| Docket No.: | 2675.1004-001 | | |
| Application No.: | 09/591,293 | Group: | 2733 |
| Filed: | June 9, 2000 | Examiner: | Not Assigned |
| Title: | Communication System and Method With Optical Banding | | |
| Assignee: | Astral Point Communications, Inc. | | |
| Recordation Date: | September 18, 2000 | Reel: | 011109 Frames: 0157-0160 |

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| Applicants: Jerry D. Hutchison <i>et al.</i> | |
| Docket No.: 2675.1005-001 | |
| Application No.: 09/590,950 | Group: 2874 |
| Filed: June 9, 2000 | Examiner: Not Assigned |
| Title: Communication System And Method With Optical Management Bus | |
| Assignee: Astral Point Communications, Inc. | |
| Recordation Date: September 11, 2000 | Reel: 011088 Frames: 0721-0724 |
| Applicants: Daniel T. Moriarty <i>et al.</i> | |
| Docket No.: 2675.1006-000 | |
| Application No.: 09/877,921 | Group: 2874 |
| Filed: June 7, 2001 | Examiner: Not Assigned |
| Title: Power Control Circuit For Laser Diode Having Wavelength Compensation | |
| Assignee: Astral Point Communications, Inc. | |
| Recordation Date: June 7, 2001 | Reel: 011899 Frames: 0229-0232 |



AS 06/07/2001



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

PTAS
HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
RODNEY D. JOHNSON, ESQ.
TWO MILITIA DRIVE
LEXINGTON, MA 02421-4799



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UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 06/07/2001

REEL/FRAME: 011899/0229
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
MORIARTY, DANIEL T.

DOC DATE: 06/04/2001

ASSIGNOR:
HUTCHISON, JERRY D.

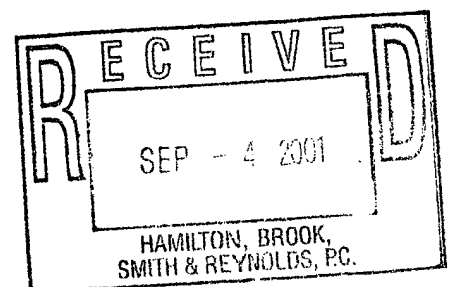
DOC DATE: 06/04/2001

ASSIGNEE:
ASTRAL POINT COMMUNICATIONS, INC.
19 ALPHA ROAD
CHELMSFORD, MASSACHUSETTS 01824

SERIAL NUMBER: 09877921
PATENT NUMBER:

FILING DATE: 06/07/2001
ISSUE DATE:

MARY BENTON, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS



-20-2001



**COVER SHEET
ONLY**

101751393

To the Honorable Commissioner of Patents and Trademarks

Record the attached original documents or copy thereof.

| | |
|---|--|
| <p>1. Name of conveying party(ies)</p> <p>(1) Daniel T. Moriarty (2) Jerry D. Hutchison</p> <p style="text-align: center; font-size: 1.5em; margin-top: 20px;">6/7/01</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> | <p>2. Name and address of receiving party(ies)</p> <p>Name: <u>Astral Point Communications, Inc.</u></p> <p>Internal Address: _____</p> <p>Street Address: <u>19 Alpha Road</u></p> <p>City: <u>Chelmsford,</u> State: <u>MA</u> ZIP: <u>01824</u></p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> |
| <p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger</p> <p><input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name</p> <p><input type="checkbox"/> Other _____</p> <p>Execution Date: <u>June 4, 2001</u></p> | <div style="position: relative; height: 100px;"> <div style="position: absolute; right: 0; top: 0; transform: rotate(90deg); font-size: 0.8em;"> JCS78 U.S. PTO 09/877921 </div> </div> |

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|--|--|
| <p>4. Application number(s) or patent number(s):</p> <p>If this document is being filed together with a new application, the execution date of the application is: <u>June 4, 2001</u></p> | |
| <p>A. Patent Application No.(s)</p> <p>06/4/2001 EFLORES 00000034 09877921</p> <p>04 EC:581 40.00 DP</p> | <p>B. Patent No.(s)</p> <p style="text-align: center; font-size: 1.5em; margin-top: 20px;">09/877921</p> |
| <p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> | |

| | |
|---|--|
| <p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: <u>Rodney D. Johnson, Esq.</u></p> <p>Internal Address: _____</p> <p><u>Hamilton, Brook, Smith & Reynolds, P.C.</u></p> <p>Street Address: <u>Two Militia Drive</u></p> <p>City: <u>Lexington</u> State: <u>MA</u> ZIP: <u>02421-4799</u></p> | <p>6. Total number of applications and patents involved: <u>[1]</u></p> <p>7. Total Fee (37 C.F.R. 3.41)..... \$ <u>40.00</u></p> <p><input checked="" type="checkbox"/> Enclosed</p> <p><input checked="" type="checkbox"/> Authorized to charge any deficiencies or credit any overpayment to deposit account</p> <p><input type="checkbox"/> Authorized to be charged to deposit account</p> <p>8. Deposit account number:</p> <p style="text-align: center;"><u>08-0380</u></p> <p>(Attach duplicate copy of this page if paying by deposit account)</p> |
|---|--|

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|---|----------------------------|---|
| <p>9. Statement and signature.</p> <p><i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i></p> | | |
| <p>Timothy J. Meagher</p> <p>_____ Name of Person Signing</p> | <p>_____ Signature</p> | <p>June 7, 2001</p> <p>_____ Date</p> |
| <p>Total number of pages including cover sheet, attachments, and document: <u>[4]</u></p> | | |

JointASSIGNMENT

WHEREAS, we, **Daniel T. Moriarty and Jerry D. Hutchison**, have invented a certain improvement in **POWER CONTROL CIRCUIT FOR LASER DIODE HAVING WAVELENGTH COMPENSATION** described in an application for Letters Patent of the United States, the specification of which:

☒ is being executed on even date herewith and is about to be filed in the United States Patent Office;

☐ was filed on [] as Application No. [];

☐ was patented under U.S. Patent No. [] on [].

WHEREAS, **Astral Point Communications, Inc.** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of Delaware**, and having a usual place of business at **19 Alpha Road, Chelmsford, Massachusetts 01824** desires to acquire an interest therein in accordance with agreements duly entered into with us;

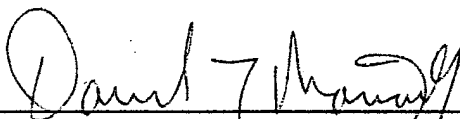
NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: _____


Daniel T. Moriarty

State/Commonwealth _____

of Massachusetts

County of Middlesex

Then personally appeared before me the above-named **Daniel T. Moriarty** and acknowledged that he executed the foregoing instrument as his free act and deed this 4th day of June, 2001.

(SEAL)

 Notary Public

Penny E. Gravina (print name)

My Commission expires 12/22/06

Inventor's Signature: _____

Jerry D. Hutchison

Jerry D. Hutchison

State/Commonwealth

of Massachusetts

County of Middlesex

Then personally appeared before me the above-named **Jerry D. Hutchison** and acknowledged that he executed the foregoing instrument as his free act and deed this 4th day of

June, 2001.

(SEAL)

Penny E. Gravina

Notary Public

Penny E. Gravina (print name)

My Commission expires 12/22/06